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LSU OUTDOOR

Product-Specific Brochure

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LSU OUTDOOR

Product description

The PROLYTE LSU outdoor LED stacking system is a robust and versatile solution for ground-supported LED screens in outdoor environments. Designed for maximum stability and safety, the system can be built up to a maximum height of 4 metres and is verified according to the latest applicable standards and regulations.

Its modular design, using base units, connection bars and triangular truss sections, creates a strong and rigid support structure. With flexible height and width options, the system can be easily adapted to different LED screen sizes and a wide range of outdoor event requirements.

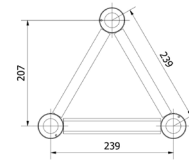
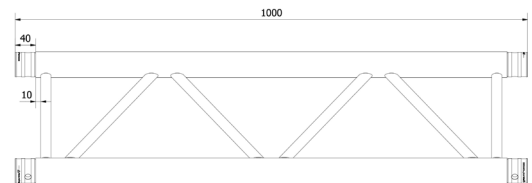
Key features:

- LED screen build height of up to 4 metres
- Compatible with existing indoor systems
- Entry bracket with a universal connection plate suitable for any LED panel
- Bracket adjusts to accommodate various LED panel depths
- Extendable and reinforced base unit for reduced ballast requirements

Technical specifications - Ground stack LED screen support outdoor

All items are black-coated as standard (RAL 9005)

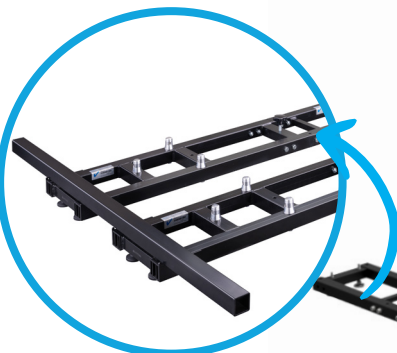
Base unit	50x50-mm profile
Truss	S30D triangular 50x4-mm main chord
Straight members	20x2 mm
Diagonal members	20x2 mm
Connection System	CCS6



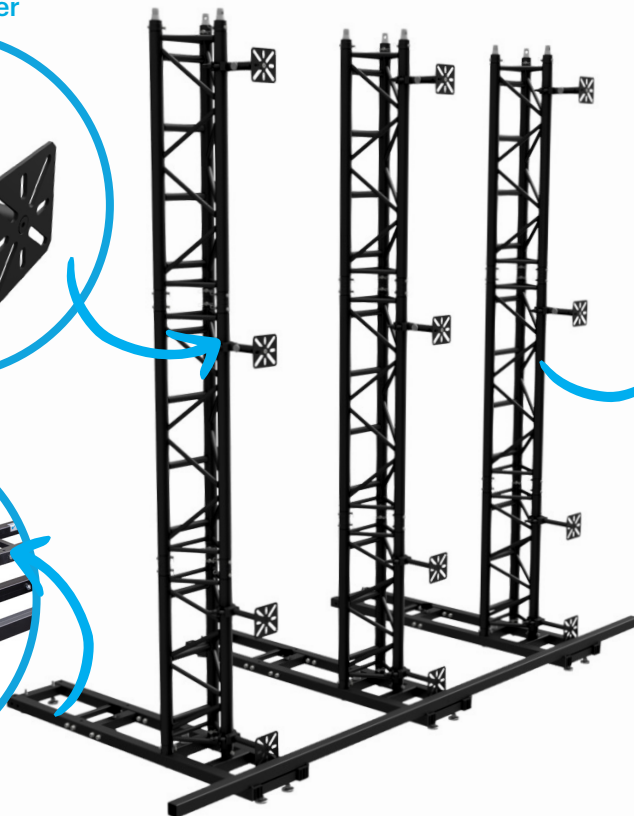
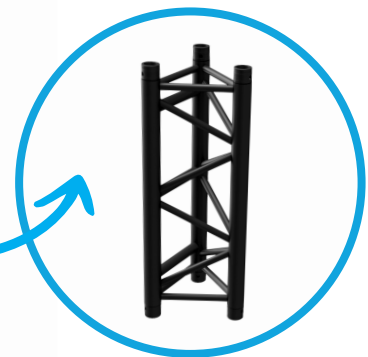
Extendable LED
Panel Adapter



LSU
Base Unit Extension



Triangular Truss



LSU OUTDOOR PARTS

LSU OUTDOOR

Standard available lengths and codes

Available base unit

Weight (kg)	Description	Code	Item number
10.0	GROUND STACK BASE UNIT L=100 CM, RAL 9005	BGR35-PRD-L122	11110733

Required accessories to be ordered with base, 1 each

0.09	CONNECTOR 600 HALF O/M12	CCS6-650	11120023
0.07	BOLT M12X65 CM DIN 933	BM-M12xO65	111520104
0.01	M12 WASHER	BM-M12-W/24	111520058

Available triangular truss length

6.31	TRIANGULAR 30 LENGTH 075 CM RAL 9005	PC-LSU-S30D-L075-RAL9005	111120094
7.57	TRIANGULAR 30 LENGTH 100 CM RAL 9005	PC-LSU-S30D-L100-RAL9005	111120095

Available connection bar length

1.98	GROUND STACK CONNECTION BAR LENGTH 100 CM, RAL 9005	PC-LSU-CONNB-L100-RAL9005	111550791
2.97	GROUND STACK CONNECTION BAR LENGTH 150 CM, RAL 9005	PC-LSU-CONNB-L150-RAL9005	111550793
3.97	GROUND STACK CONNECTION BAR LENGTH 200 CM, RAL 9005	PC-LSU-CONNB-L200-RAL9005	111550792

Available base extension

4.60	LSU BASE UNIT EXTENSION L=050 CM RAL 9005	PC-LSU-BASE-L050-EXT-RAL9005	111120096
2.05	LSU BASE CONNECTOR L=1000 MM	LSU-BASE-CON-1000	111600382

Connection materials for connector, 4 each

Available LED panel adapters

0.98	TRUSS TO LED PANEL ADAPTER M8-10-12 RAL 9005	PC-LSU-ADAP-03-RAL9005	111600281
1.13	TRUSS TO LED PANEL ADAPTER ADJ	PC-LSU-ADAP-06-RAL9005	111600383

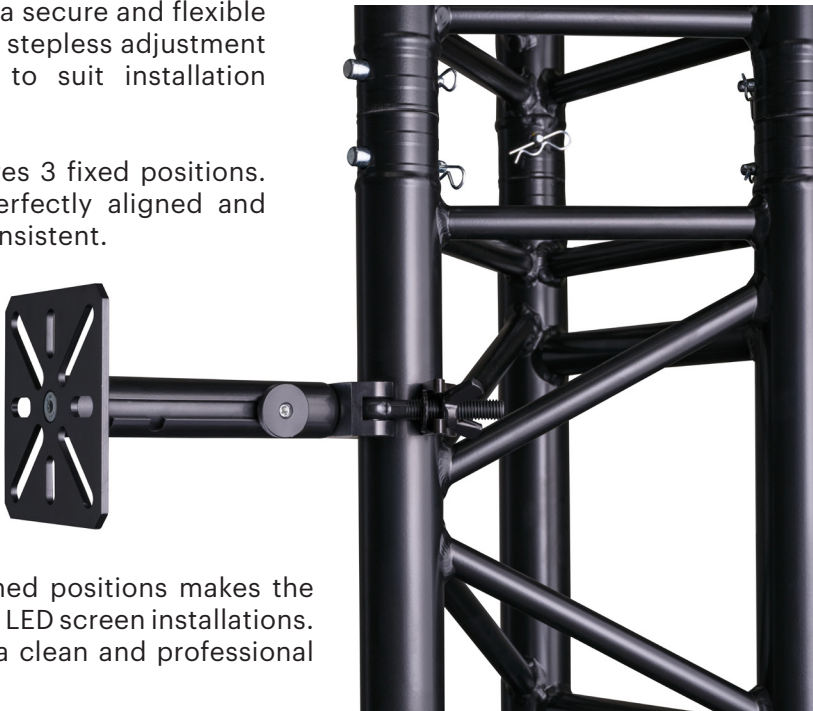
Truss to LED Panel Adapter

The Truss to LED Panel Adapter is designed to provide a secure and flexible connection between LED panels and truss systems. Its stepless adjustment allows the LED panel to be positioned precisely to suit installation requirements.

In addition to stepless adjustment, the adapter features 3 fixed positions. These preset positions are designed to ensure a perfectly aligned and straight LED screen, making set-up faster and more consistent.

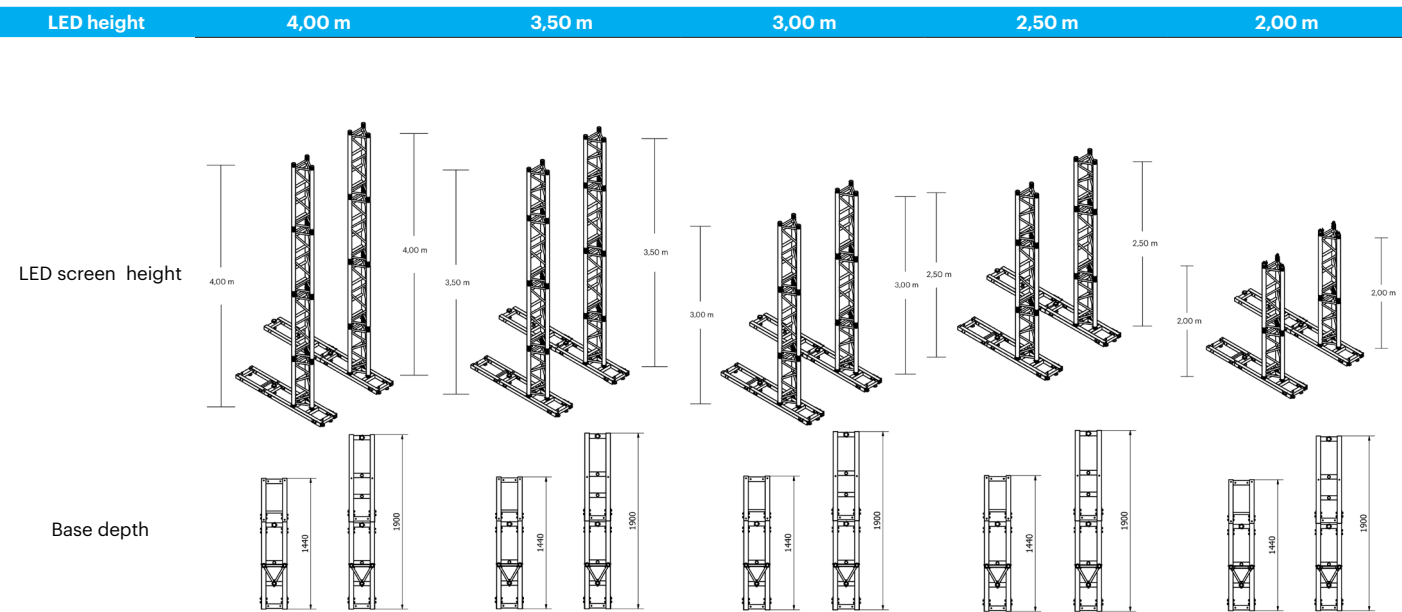
- Position 1 – Base start: designed to start the LED screen directly from the truss base.
- Position 2 – Floor start: enables the LED screen to start directly from the floor.
- Position 3 – Curved floor start: designed for curved LED screens starting directly from the floor.

This combination of precise adjustment and predefined positions makes the adapter a versatile solution for both straight and curved LED screen installations. It simplifies set-up, improves alignment and ensures a clean and professional result.



LSU OUTDOOR PARTS

Ballast values



Ballast values per base unit					
Tower distance	1.00 m	1.00 m	1.00 m	1.00 m	1.00 m
Wind pressure q	0.51 kN/m²	0.62 kN/m²	0.65 kN/m²	0.85 kN/m²	0.85 kN/m²
Rear Ballast for 1.44 m	792 kg	735 kg	574 kg	398 kg	255 kg
Rear Ballast for 1.90 m	551 kg	511 kg	399 kg	277 kg	177 kg

Tower distance	0.50 m	0.50 m	0.50 m	0.50 m	0.50 m
Wind pressure q	0.92 kN/m²	0.92 kN/m²	0.92 kN/m²	0.92 kN/m²	0.92 kN/m²
Rear Ballast for 1.44 m	720 kg	551 kg	405 kg	281 kg	180 kg
Rear Ballast for 1.90 m	17 kg	0 kg	0 kg	0 kg	0 kg

LSU BASE UNIT

The LSU BASE UNIT is a foundational modular component designed to safely support and level ground-stacked LED video walls from various manufacturers.

Built with a sturdy Image profile base, it uses standard CCS6 coupling for seamless integration with other PROLYTE components. It has recently been upgraded with a Image extension and reinforced with internal steel strips to enhance its wind resistance.



www.prolyte.com

sales@prolyte.com

